

### **Abstract**

A system of inclined geosynchronous  
satellite orbits has a service area defined on a  
surface of the earth. The service area has elevation  
5 angles greater than a predetermined minimum elevation  
angle from the horizon. A satellite has an orbit  
with respect to the earth having a sky track when  
viewed from within said service area. An operating  
arc is defined by a subset of points on the sky track  
10 within the service area. The satellites operate  
consecutively on the operating arc.